

IN-CIRCUIT CONFIGURATION ARCHITECTURE WITH NON-VOLATILE CONFIGURATION STORE FOR EMBEDDED CONFIGURABLE LOGIC ARRAY

ABSTRACT

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[0061] A system-on-a-chip integrated circuit that includes a configurable logic array,
a processor core, and a memory adapted to store instructions for a mission function, and
instructions for a configuration load function used to load configuration data on to a non-
volatile configuration store on the integrated circuit via an input port on the integrated
10 circuit from an external source. The processor fetches and executes the instructions from
the memory. Instructions for a configuration function are stored in the memory, by
which configuration data is transferred from the configuration store to configuration
points in the configurable logic array.